

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

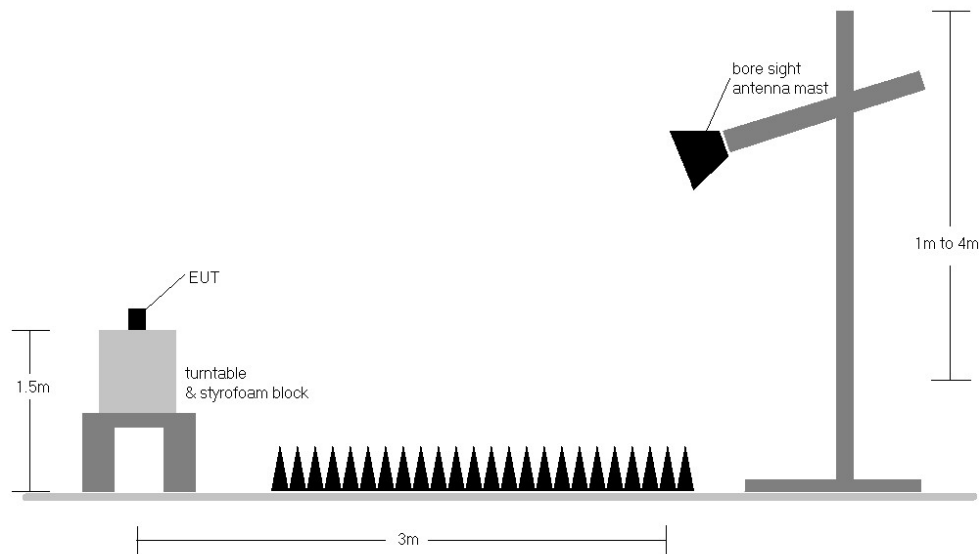


Figure 7-7. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 88 of 102

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	3500.01	H	244	329	6.46	1 / 136	19.01	25.47	0.353	30.00	-4.53
	QPSK	3500.01	H	244	329	6.46	1 / 136	18.97	25.43	0.350	30.00	-4.57
	16-QAM	3500.01	H	244	329	6.46	1 / 136	17.47	23.93	0.247	30.00	-6.07
90 MHz	π/2 BPSK	3495.00	H	244	329	6.46	1 / 243	19.10	25.55	0.359	30.00	-4.45
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 243	19.15	25.61	0.364	30.00	-4.39
	π/2 BPSK	3504.99	H	244	329	6.47	1 / 243	19.21	25.67	0.369	30.00	-4.33
	QPSK	3495.00	H	244	329	6.46	1 / 243	19.07	25.52	0.357	30.00	-4.48
	QPSK	3500.01	H	244	329	6.46	1 / 243	19.12	25.58	0.362	30.00	-4.42
	QPSK	3504.99	H	244	329	6.47	1 / 243	19.19	25.65	0.368	30.00	-4.35
	16-QAM	3495.00	H	244	329	6.46	1 / 243	17.56	24.01	0.252	30.00	-5.99
	16-QAM	3500.01	H	244	329	6.46	1 / 243	17.60	24.06	0.255	30.00	-5.94
	16-QAM	3504.99	H	244	329	6.47	1 / 243	17.67	24.13	0.259	30.00	-5.87
80 MHz	π/2 BPSK	3490.02	H	244	329	6.45	1 / 215	19.06	25.51	0.356	30.00	-4.49
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 215	19.15	25.61	0.364	30.00	-4.39
	π/2 BPSK	3510.00	H	244	329	6.47	1 / 215	19.10	25.57	0.361	30.00	-4.43
	QPSK	3490.02	H	244	329	6.45	1 / 215	18.97	25.42	0.349	30.00	-4.58
	QPSK	3500.01	H	244	329	6.46	1 / 215	19.07	25.53	0.358	30.00	-4.47
	QPSK	3510.00	H	244	329	6.47	1 / 215	19.03	25.50	0.355	30.00	-4.50
	16-QAM	3490.02	H	244	329	6.45	1 / 215	17.47	23.92	0.247	30.00	-6.08
	16-QAM	3500.01	H	244	329	6.46	1 / 215	17.60	24.06	0.255	30.00	-5.94
	16-QAM	3510.00	H	244	329	6.47	1 / 215	17.55	24.02	0.253	30.00	-5.98
70 MHz	π/2 BPSK	3485.01	H	244	329	6.45	1 / 1	19.22	25.66	0.369	30.00	-4.34
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 187	19.16	25.62	0.365	30.00	-4.38
	π/2 BPSK	3514.98	H	244	329	6.47	1 / 187	19.27	25.74	0.375	30.00	-4.26
	QPSK	3485.01	H	244	329	6.45	1 / 1	19.16	25.60	0.363	30.00	-4.40
	QPSK	3500.01	H	244	329	6.46	1 / 187	19.10	25.56	0.360	30.00	-4.44
	QPSK	3514.98	H	244	329	6.47	1 / 187	19.23	25.70	0.372	30.00	-4.30
	16-QAM	3485.01	H	244	329	6.45	1 / 1	17.67	24.11	0.258	30.00	-5.89
	16-QAM	3500.01	H	244	329	6.46	1 / 187	17.60	24.06	0.255	30.00	-5.94
	16-QAM	3514.98	H	244	329	6.47	1 / 187	17.73	24.20	0.263	30.00	-5.80
60 MHz	π/2 BPSK	3480.00	H	244	329	6.44	1 / 1	19.13	25.57	0.361	30.00	-4.43
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 160	19.05	25.51	0.356	30.00	-4.49
	π/2 BPSK	3519.99	H	244	329	6.48	1 / 160	19.15	25.62	0.365	30.00	-4.38
	QPSK	3480.00	H	244	329	6.44	1 / 1	19.07	25.51	0.356	30.00	-4.49
	QPSK	3500.01	H	244	329	6.46	1 / 160	19.01	25.47	0.353	30.00	-4.53
	QPSK	3519.99	H	244	329	6.48	1 / 160	19.12	25.59	0.363	30.00	-4.41
	16-QAM	3480.00	H	244	329	6.44	1 / 1	17.57	24.01	0.252	30.00	-5.99
	16-QAM	3500.01	H	244	329	6.46	1 / 160	17.50	23.96	0.249	30.00	-6.04
	16-QAM	3519.99	H	244	329	6.48	1 / 160	17.61	24.08	0.256	30.00	-5.92
50 MHz	π/2 BPSK	3475.02	H	244	329	6.43	1 / 1	19.12	25.55	0.359	30.00	-4.45
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 131	18.93	25.39	0.346	30.00	-4.61
	π/2 BPSK	3525.00	H	244	329	6.48	1 / 131	19.07	25.54	0.358	30.00	-4.46
	QPSK	3475.02	H	244	329	6.43	1 / 1	19.07	25.50	0.355	30.00	-4.50
	QPSK	3500.01	H	244	329	6.46	1 / 131	18.87	25.33	0.342	30.00	-4.67
	QPSK	3525.00	H	244	329	6.48	1 / 131	19.02	25.49	0.354	30.00	-4.51
	16-QAM	3475.02	H	244	329	6.43	1 / 1	17.58	24.01	0.252	30.00	-5.99
	16-QAM	3500.01	H	244	329	6.46	1 / 131	17.36	23.82	0.241	30.00	-6.18
	16-QAM	3525.00	H	244	329	6.48	1 / 131	17.50	23.97	0.250	30.00	-6.03
40 MHz	π/2 BPSK	3470.01	H	244	329	6.43	1 / 1	19.08	25.50	0.355	30.00	-4.50
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 104	18.85	25.31	0.340	30.00	-4.69
	π/2 BPSK	3529.98	H	244	329	6.48	1 / 104	19.10	25.58	0.362	30.00	-4.42
	QPSK	3470.01	H	244	329	6.43	1 / 1	19.03	25.45	0.351	30.00	-4.55
	QPSK	3500.01	H	244	329	6.46	1 / 104	18.81	25.27	0.337	30.00	-4.73
	QPSK	3529.98	H	244	329	6.48	1 / 104	19.06	25.54	0.358	30.00	-4.46
	16-QAM	3470.01	H	244	329	6.43	1 / 1	17.53	23.95	0.249	30.00	-6.05
	16-QAM	3500.01	H	244	329	6.46	1 / 104	17.29	23.75	0.237	30.00	-6.25
	16-QAM	3529.98	H	244	329	6.48	1 / 104	17.53	24.01	0.252	30.00	-5.99
30 MHz	π/2 BPSK	3465.00	H	244	329	6.42	1 / 1	19.06	25.48	0.354	30.00	-4.52
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 1	18.86	25.32	0.341	30.00	-4.68
	π/2 BPSK	3534.99	H	244	329	6.48	1 / 76	19.14	25.62	0.365	30.00	-4.38
	QPSK	3465.00	H	244	329	6.42	1 / 1	19.01	25.43	0.350	30.00	-4.57
	QPSK	3500.01	H	244	329	6.46	1 / 1	18.80	25.26	0.336	30.00	-4.74
	QPSK	3534.99	H	244	329	6.48	1 / 76	19.09	25.57	0.361	30.00	-4.43
	16-QAM	3465.00	H	244	329	6.42	1 / 1	17.52	23.94	0.248	30.00	-6.06
	16-QAM	3500.01	H	244	329	6.46	1 / 1	17.29	23.75	0.237	30.00	-6.25
	16-QAM	3534.99	H	244	329	6.48	1 / 76	17.59	24.07	0.256	30.00	-5.93
20 MHz	π/2 BPSK	3460.02	H	244	329	6.42	1 / 1	18.98	25.39	0.348	30.00	-4.61
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 1	18.77	25.23	0.334	30.00	-4.77
	π/2 BPSK	3540.00	H	244	329	6.49	1 / 25	18.97	25.45	0.351	30.00	-4.55
	QPSK	3460.02	H	244	329	6.42	1 / 1	18.92	25.33	0.342	30.00	-4.67
	QPSK	3500.01	H	244	329	6.46	1 / 1	18.72	25.18	0.330	30.00	-4.82
	QPSK	3540.00	H	244	329	6.49	1 / 25	18.97	25.45	0.351	30.00	-4.55
	16-QAM	3460.02	H	244	329	6.42	1 / 1	17.42	23.83	0.242	30.00	-6.17
	16-QAM	3500.01	H	244	329	6.46	1 / 1	17.23	23.69	0.234	30.00	-6.31
	16-QAM	3540.00	H	244	329	6.49	1 / 25	17.41	23.89	0.245	30.00	-6.11
15 MHz	π/2 BPSK	3457.50	H	244	329	6.41	1 / 1	18.96	25.37	0.345	30.00	-4.63
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 1	18.74	25.20	0.331	30.00	-4.80
	π/2 BPSK	3542.49	H	244	329	6.49	1 / 19	18.99	25.47	0.353	30.00	-4.53
	QPSK	3457.50	H	244	329	6.41	1 / 1	18.92	25.33	0.342	30.00	-4.67
	QPSK	3500.01	H	244	329	6.46	1 / 1	18.70	25.16	0.328	30.00	-4.84
	QPSK	3542.49	H	244	329	6.49	1 / 19	18.95	25.43	0.350	30.00	-4.57
	16-QAM	3457.50	H	244	329	6.41	1 / 1	17.41	23.82	0.241	30.00	-6.16
	16-QAM	3500.01	H	244	329	6.46	1 / 1	17.19	23.65	0.232	30.00	-6.35
	16-QAM	3542.49	H	244	329	6.49	1 / 19	17.47	23.95	0.249	30.00	-6.05
10 MHz	π/2 BPSK	3455.01	H	244	329	6.41	1 / 1	18.95	25.35	0.343	30.00	-4.65
	π/2 BPSK	3500.01	H	244	329	6.46	1 / 1	18.72	25.18	0.330	30.00	-4.82
	π/2 BPSK	3544.98	H	244	329	6.49	1 / 12	19.03	25.51	0.356	30.00	-4.40
	QPSK	3455.01	H	244	329	6.41	1 / 1	18.92	25.32	0.341	30.00	-4.66
	QPSK	3500.01	H	244	329	6.46	1 / 1	18.68	25.14	0.327	30.00	-4.86
	QPSK	3544.98	H	244	329	6.49	1 / 1	18.98	25.46	0.352	30.00	-4.54
	16-QAM	3455.01	H	244	329	6.41	1 / 1	17.39	23.79	0.240	30.00	-6.21
	16-QAM	3500.01	H	244	329	6.46	1 / 1	17.16	23.62	0.230	30.00	-6.38
	16-QAM	3544.98	H	244	329	6.49	1 / 12	17.52	24.00	0.251	30.00	-6.00
100 MHz	QPSK (CP-OFDM)	3500.0	H	244	324	6.48	1/136	17.53	23.99	0.251	30.00	-6.01
	QPSK (Opposite Pol.)	3500.0	V	195	310	6.48	1/136	17.06	23.54	0.226	30.00	-6.46
	QPSK (WCP)	3500.0	H	240	332	6.48	1/136	17.30	23.76	0.238	30.00	-6.24

Table 7-18. Radiated Power Test Results - Ant1 - DoD Band

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [HV]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
100 MHz	m/2 BPSK	3750.00	H	184	331	7.01	1 / 1	17.57	24.58	0.287	30.00	-5.42
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 136	15.99	23.14	0.206	30.00	-6.86
	m/2 BPSK	3930.00	H	187	337	7.39	1 / 271	14.93	22.32	0.171	30.00	-7.68
	QPSK	3750.00	H	184	331	7.01	1 / 1	17.73	24.74	0.298	30.00	-5.26
	QPSK	3840.00	H	169	335	7.15	1 / 136	16.01	23.16	0.207	30.00	-6.84
	QPSK	3930.00	H	187	337	7.39	1 / 271	14.84	22.23	0.167	30.00	-7.77
	16-QAM	3750.00	H	184	331	7.01	1 / 1	16.80	23.81	0.241	30.00	-6.19
	16-QAM	3840.00	H	169	335	7.15	1 / 136	13.96	21.11	0.129	30.00	-8.89
	16-QAM	3930.00	H	187	337	7.39	1 / 271	13.76	21.15	0.130	30.00	-8.85
	m/2 BPSK	3745.02	H	184	331	7.00	1 / 1	17.54	24.54	0.285	30.00	-5.46
90 MHz	m/2 BPSK	3840.00	H	169	335	7.15	1 / 243	16.19	23.34	0.216	30.00	-6.66
	m/2 BPSK	3934.98	H	187	337	7.40	1 / 243	14.79	22.19	0.166	30.00	-7.81
	QPSK	3745.02	H	184	331	7.00	1 / 1	17.70	24.70	0.295	30.00	-5.30
	QPSK	3840.00	H	169	335	7.15	1 / 243	16.20	23.35	0.216	30.00	-6.65
	QPSK	3934.98	H	187	337	7.40	1 / 243	14.69	22.09	0.162	30.00	-7.91
	16-QAM	3745.02	H	184	331	7.00	1 / 1	16.76	23.76	0.238	30.00	-6.24
	16-QAM	3840.00	H	169	335	7.15	1 / 243	14.16	21.31	0.135	30.00	-8.69
	16-QAM	3934.98	H	187	337	7.40	1 / 243	13.63	21.03	0.127	30.00	-8.97
	m/2 BPSK	3740.01	H	184	331	6.99	1 / 1	17.60	24.58	0.287	30.00	-5.42
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 215	16.12	23.27	0.212	30.00	-6.73
80 MHz	m/2 BPSK	3939.99	H	187	337	7.41	1 / 1	14.83	22.24	0.168	30.00	-7.76
	QPSK	3740.01	H	184	331	6.99	1 / 1	17.76	24.74	0.298	30.00	-5.26
	QPSK	3840.00	H	169	335	7.15	1 / 215	16.15	23.30	0.214	30.00	-6.70
	QPSK	3939.99	H	187	337	7.41	1 / 1	14.74	22.15	0.164	30.00	-7.85
	16-QAM	3740.01	H	184	331	6.99	1 / 1	16.82	23.80	0.240	30.00	-6.20
	16-QAM	3840.00	H	169	335	7.15	1 / 215	14.10	21.25	0.133	30.00	-8.75
	16-QAM	3939.99	H	187	337	7.41	1 / 1	13.69	21.10	0.129	30.00	-8.90
	m/2 BPSK	3735.00	H	184	331	6.97	1 / 1	17.77	24.74	0.298	30.00	-5.28
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 187	16.14	23.29	0.213	30.00	-6.71
	m/2 BPSK	3945.00	H	187	337	7.42	1 / 1	15.01	22.43	0.175	30.00	-7.57
70 MHz	QPSK	3735.00	H	184	331	6.97	1 / 1	17.94	24.91	0.310	30.00	-5.09
	QPSK	3840.00	H	169	335	7.15	1 / 187	16.14	23.29	0.213	30.00	-6.71
	QPSK	3945.00	H	187	337	7.42	1 / 1	14.93	22.35	0.172	30.00	-7.65
	16-QAM	3735.00	H	184	331	6.97	1 / 1	17.03	24.00	0.251	30.00	-6.00
	16-QAM	3840.00	H	169	335	7.15	1 / 187	14.14	21.29	0.135	30.00	-8.71
	16-QAM	3945.00	H	187	337	7.42	1 / 1	13.88	21.30	0.135	30.00	-8.70
	m/2 BPSK	3730.02	H	184	331	6.96	1 / 1	17.76	24.71	0.296	30.00	-5.29
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 160	16.07	23.22	0.210	30.00	-6.78
	m/2 BPSK	3949.98	H	187	337	7.43	1 / 1	14.91	22.33	0.171	30.00	-7.67
	QPSK	3730.02	H	184	331	6.96	1 / 1	17.98	24.93	0.312	30.00	-5.07
60 MHz	QPSK	3840.00	H	169	335	7.15	1 / 160	16.11	23.26	0.212	30.00	-6.74
	QPSK	3949.98	H	187	337	7.43	1 / 1	14.81	22.23	0.167	30.00	-7.77
	16-QAM	3730.02	H	184	331	6.96	1 / 1	17.02	23.97	0.250	30.00	-6.03
	16-QAM	3840.00	H	169	335	7.15	1 / 160	14.07	21.22	0.133	30.00	-8.78
	16-QAM	3949.98	H	187	337	7.43	1 / 1	13.76	21.18	0.131	30.00	-8.82
	m/2 BPSK	3725.01	H	184	331	6.94	1 / 1	17.75	24.69	0.295	30.00	-5.31
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 131	15.94	23.09	0.204	30.00	-6.91
	m/2 BPSK	3954.99	H	187	337	7.43	1 / 66	14.78	22.21	0.166	30.00	-7.79
	QPSK	3725.01	H	184	331	6.94	1 / 1	17.91	24.85	0.306	30.00	-5.15
	QPSK	3840.00	H	169	335	7.15	1 / 131	15.95	23.10	0.204	30.00	-6.90
50 MHz	QPSK	3954.99	H	187	337	7.43	1 / 66	14.63	22.06	0.161	30.00	-7.94
	16-QAM	3725.01	H	184	331	6.94	1 / 1	16.94	23.88	0.245	30.00	-6.12
	16-QAM	3840.00	H	169	335	7.15	1 / 131	13.92	21.07	0.128	30.00	-8.93
	16-QAM	3954.99	H	187	337	7.43	1 / 66	13.58	21.01	0.126	30.00	-8.99
	m/2 BPSK	3720.00	H	184	331	6.93	1 / 1	17.72	24.64	0.291	30.00	-5.36
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 53	15.99	23.14	0.206	30.00	-6.86
	m/2 BPSK	3960.00	H	187	337	7.44	1 / 53	14.82	22.26	0.168	30.00	-7.74
	QPSK	3720.00	H	184	331	6.93	1 / 1	17.87	24.79	0.302	30.00	-5.21
	QPSK	3840.00	H	169	335	7.15	1 / 53	15.92	23.07	0.203	30.00	-6.93
	QPSK	3960.00	H	187	337	7.44	1 / 53	14.74	22.18	0.165	30.00	-7.82
40 MHz	16-QAM	3720.00	H	184	331	6.93	1 / 1	16.95	23.87	0.244	30.00	-6.13
	16-QAM	3840.00	H	169	335	7.15	1 / 104	13.87	21.02	0.127	30.00	-8.98
	16-QAM	3960.00	H	187	337	7.44	1 / 53	13.68	21.12	0.129	30.00	-8.88
	m/2 BPSK	3715.02	H	184	331	6.91	1 / 1	17.69	24.60	0.289	30.00	-5.40
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 39	15.97	23.12	0.205	30.00	-6.88
	m/2 BPSK	3964.98	H	187	337	7.45	1 / 39	14.82	22.27	0.169	30.00	-7.73
	QPSK	3715.02	H	184	331	6.91	1 / 1	17.86	24.77	0.300	30.00	-5.23
	QPSK	3840.00	H	169	335	7.15	1 / 39	15.91	23.06	0.202	30.00	-6.94
	QPSK	3964.98	H	187	337	7.45	1 / 39	14.68	22.13	0.163	30.00	-7.87
	16-QAM	3715.02	H	184	331	6.91	1 / 1	16.91	23.82	0.241	30.00	-6.18
30 MHz	16-QAM	3840.00	H	169	335	7.15	1 / 1	13.87	21.02	0.127	30.00	-8.98
	16-QAM	3964.98	H	187	337	7.45	1 / 39	13.62	21.07	0.128	30.00	-8.93
	m/2 BPSK	3710.01	H	184	331	6.90	1 / 1	17.65	24.55	0.285	30.00	-5.45
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 1	15.83	22.98	0.199	30.00	-7.02
	m/2 BPSK	3969.99	H	187	337	7.46	1 / 1	14.69	22.15	0.164	30.00	-7.85
	QPSK	3710.01	H	184	331	6.90	1 / 1	17.83	24.73	0.298	30.00	-5.27
	QPSK	3840.00	H	169	335	7.15	1 / 25	15.84	22.99	0.199	30.00	-7.01
	QPSK	3969.99	H	187	337	7.46	1 / 1	14.58	22.04	0.160	30.00	-7.96
	16-QAM	3710.01	H	184	331	6.90	1 / 1	16.85	23.75	0.237	30.00	-6.25
	16-QAM	3840.00	H	169	335	7.15	1 / 1	13.80	20.95	0.125	30.00	-9.05
20 MHz	16-QAM	3969.99	H	187	337	7.46	1 / 1	13.51	20.97	0.125	30.00	-9.03
	m/2 BPSK	3707.52	H	184	331	6.89	1 / 1	17.59	24.48	0.281	30.00	-5.52
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 19	15.92	23.07	0.203	30.00	-6.93
	m/2 BPSK	3972.48	H	187	337	7.46	1 / 1	14.68	22.14	0.164	30.00	-7.86
	QPSK	3707.52	H	184	331	6.89	1 / 1	17.79	24.68	0.294	30.00	-5.32
	QPSK	3840.00	H	169	335	7.15	1 / 1	15.84	22.99	0.199	30.00	-7.01
	QPSK	3972.48	H	187	337	7.46	1 / 1	14.52	21.98	0.158	30.00	-8.02
	16-QAM	3707.52	H	184	331	6.89	1 / 1	16.83	23.72	0.236	30.00	-6.28
	16-QAM	3840.00	H	169	335	7.15	1 / 1	13.78	20.93	0.124	30.00	-9.07
	16-QAM	3972.48	H	187	337	7.46	1 / 1	13.47	20.93	0.124	30.00	-9.07
15 MHz	m/2 BPSK	3705.00	H	184	331	6.89	1 / 1	17.58	24.46	0.280	30.00	-5.54
	m/2 BPSK	3840.00	H	169	335	7.15	1 / 12	15.88	23.03	0.201	30.00	-6.97
	m/2 BPSK	3975.00	H	187	337	7.47	1 / 1	14.71	22.18	0.165	30.00	-7.82
	QPSK	3705.00	H	184	331	6.89	1 / 1	17.75	24.63	0.291	30.00	-5.37
	QPSK	3840.00	H	169	335	7.15	1 / 1	15.80	22.95	0.197	30.00	-7.05
	QPSK	3975.00	H	187	337	7.47	1 / 1	14.37	21.84	0.153	30.00	-8.16
	16-QAM	3705.00	H	184	331	6.89	1 / 1	16.79	23.67	0.233	30.00	-6.33
	16-QAM	3840.00	H	169	335	7.15	1 / 1	13.74	20.89	0.123	30.00	-9.11
10 MHz	16-QAM	3975.00	H	187	337	7.47	1 / 1	13.31	20.78	0.120	30.00	-9.22
	QPSK (CP-OFDM)	3750.00	H	202	330	7.01	1/136	16.34	23.35			

7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26:2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26:2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

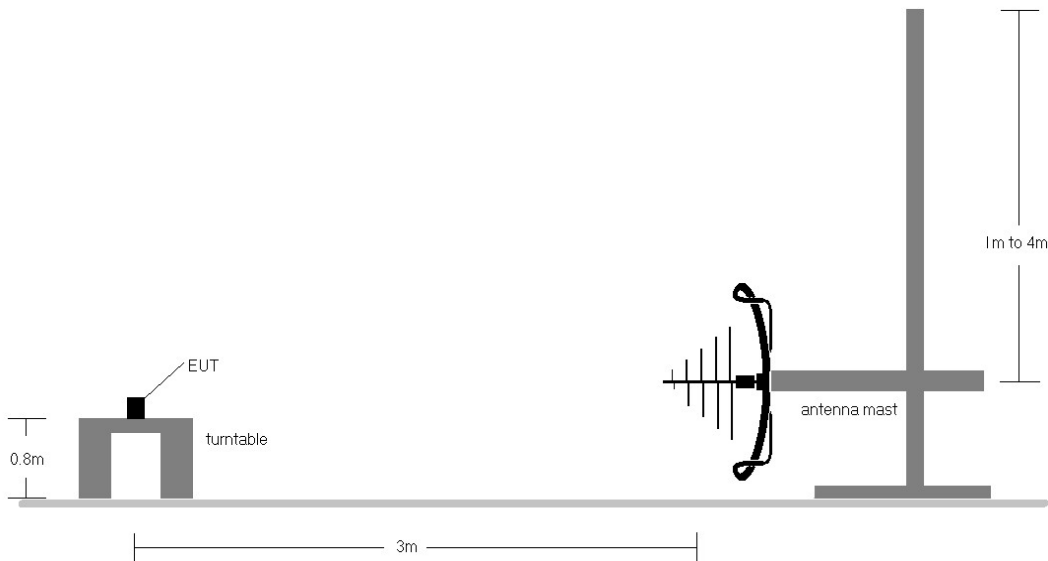


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

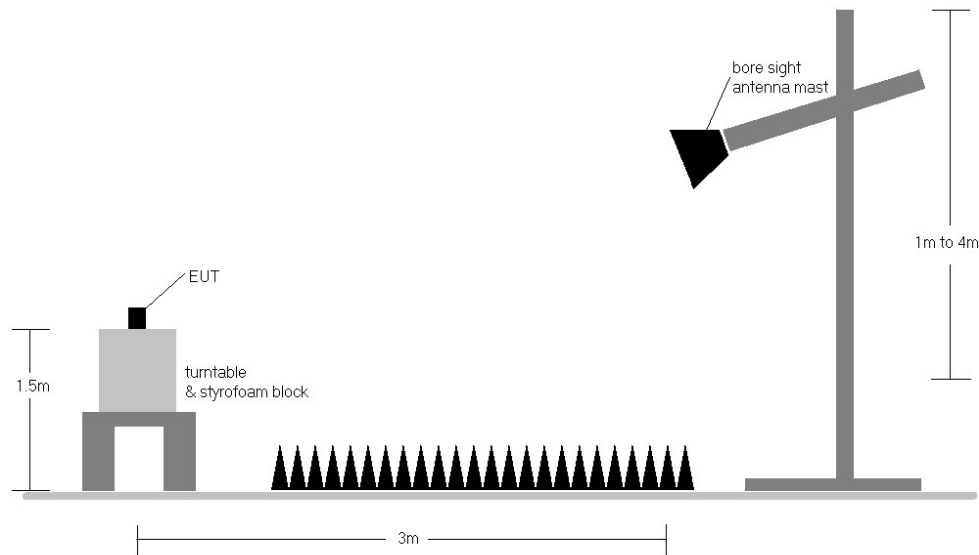


Figure 7-9. Test Instrument & Measurement Setup >1 GHz

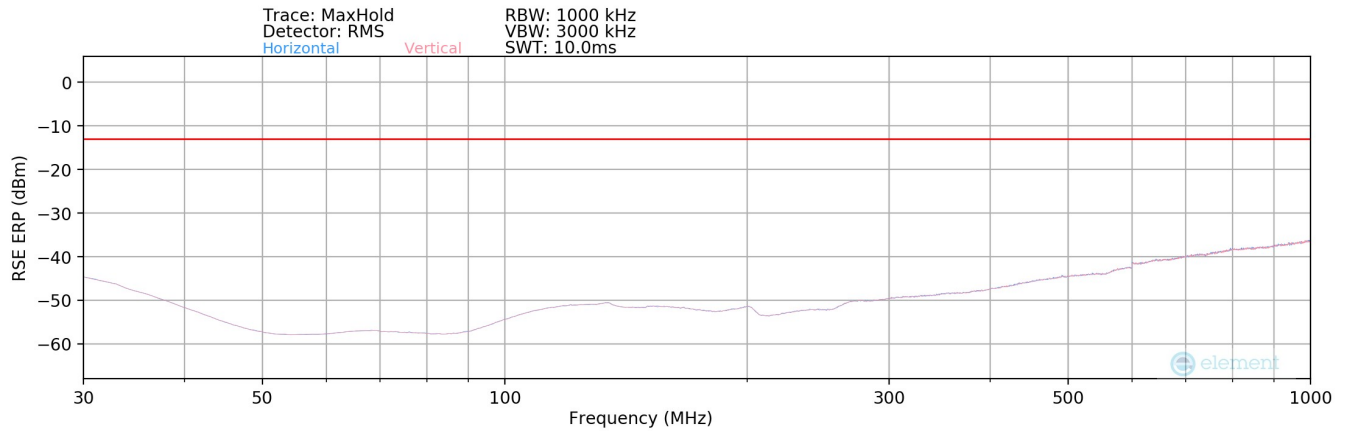
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Test Notes

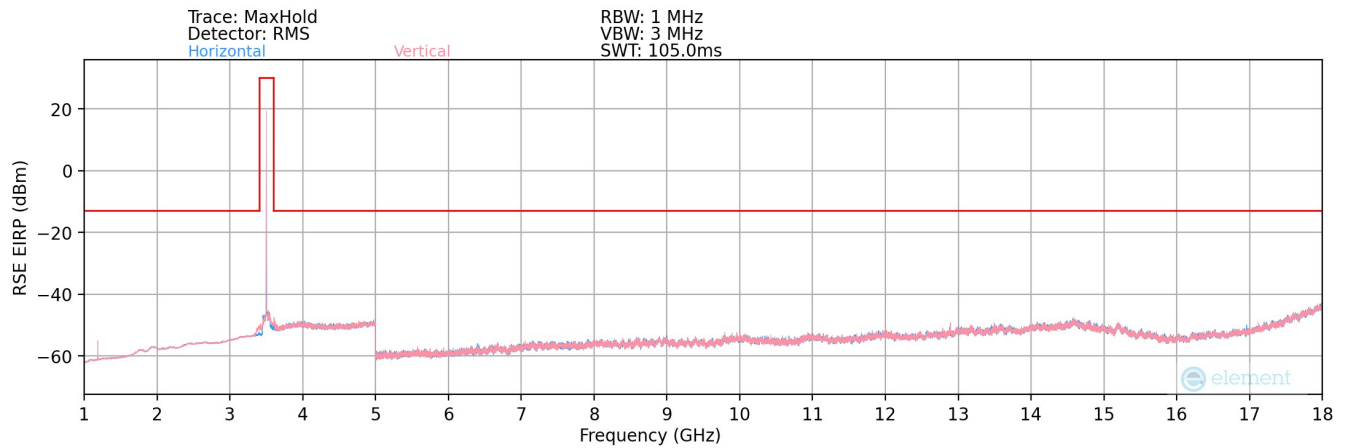
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - b) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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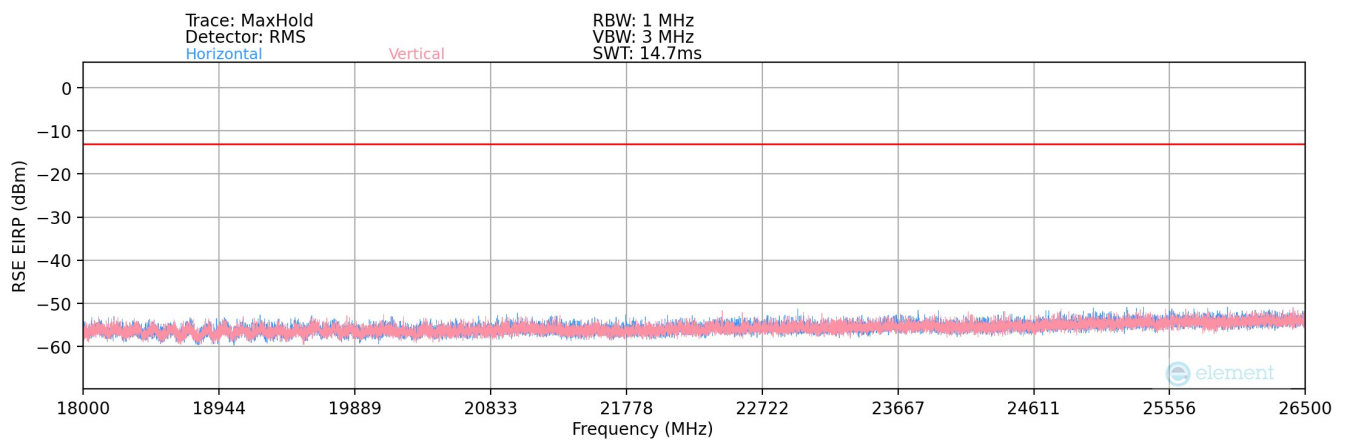
NR Band n77 – Ant 1 – DoD Band



Plot 7-105. Radiated Spurious Plot (NR Band n77) – DoD Band

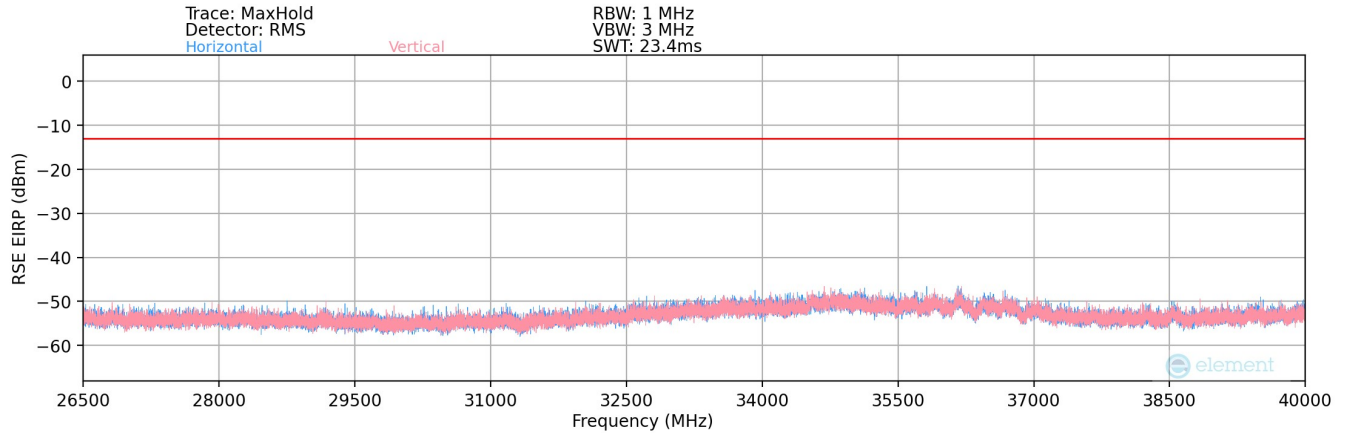


Plot 7-106. Radiated Spurious Plot (NR Band n77) – DoD Band



Plot 7-107. Radiated Spurious Plot (NR Band n77) – DoD Band

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Plot 7-108. Radiated Spurious Plot (NR Band n77) – DoD Band

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
140.00	H	-	-	-84.25	19.93	42.68	-54.73	-13.00	-41.73
200.00	H	-	-	-84.14	19.46	42.32	-55.09	-13.00	-42.09
265.00	H	-	-	-84.15	20.21	43.06	-54.35	-13.00	-41.35

Table 7-20. Radiated Spurious Data (NR Band n77) – DoD Band

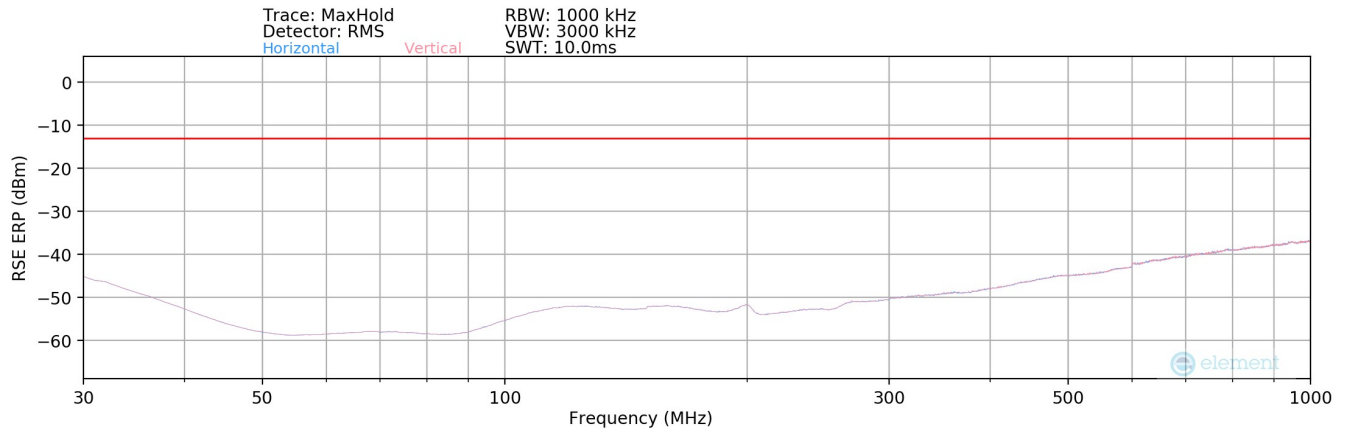
Bandwidth (MHz):	50
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	H	-	-	-74.35	3.98	36.63	-58.62	-13.00	-45.62
10500.03	H	260	0	-75.70	7.79	39.09	-56.17	-13.00	-43.17
14000.04	H	-	-	-78.00	11.83	40.83	-54.42	-13.00	-41.42
17500.05	H	-	-	-77.10	14.00	43.90	-51.35	-13.00	-38.35
21000.06	H	-	-	-77.10	14.00	43.90	-60.90	-13.00	-47.90

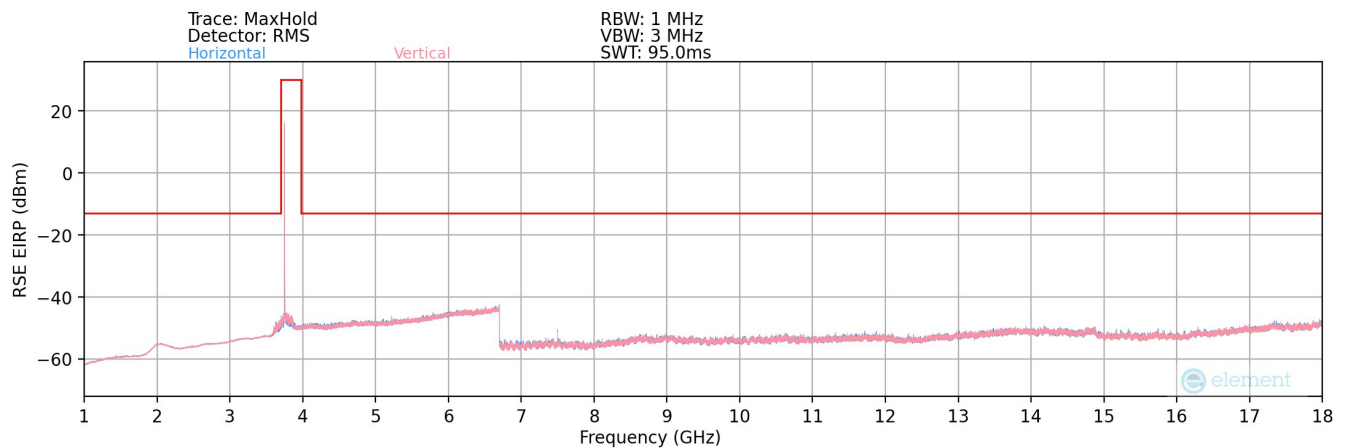
Table 7-21. Radiated Spurious Data (NR Band n77 – Mid Channel) – DoD Band

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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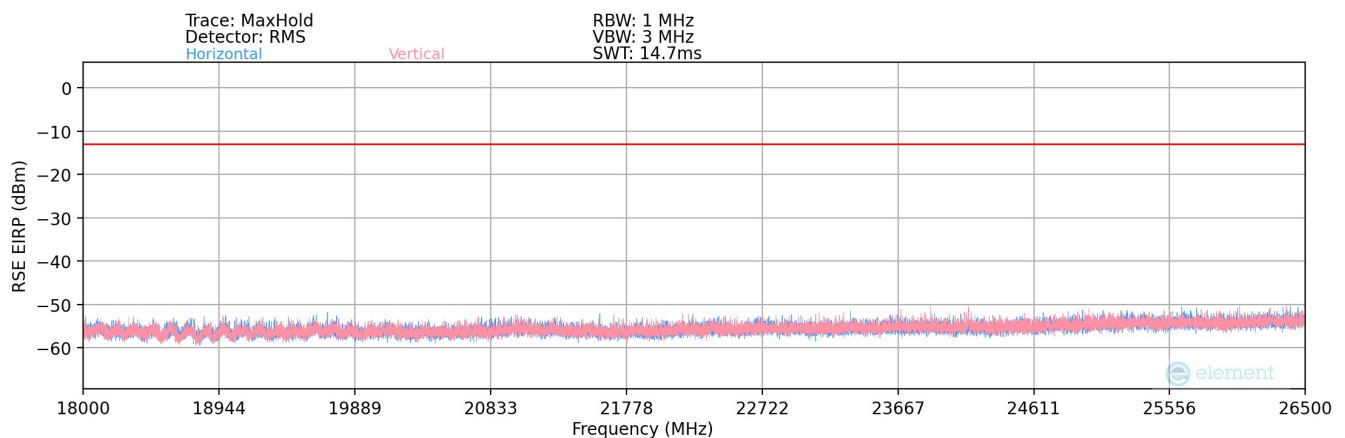
NR Band n77 – Ant 1 – C-Band



Plot 7-109. Radiated Spurious Plot (NR Band n77) – C-Band

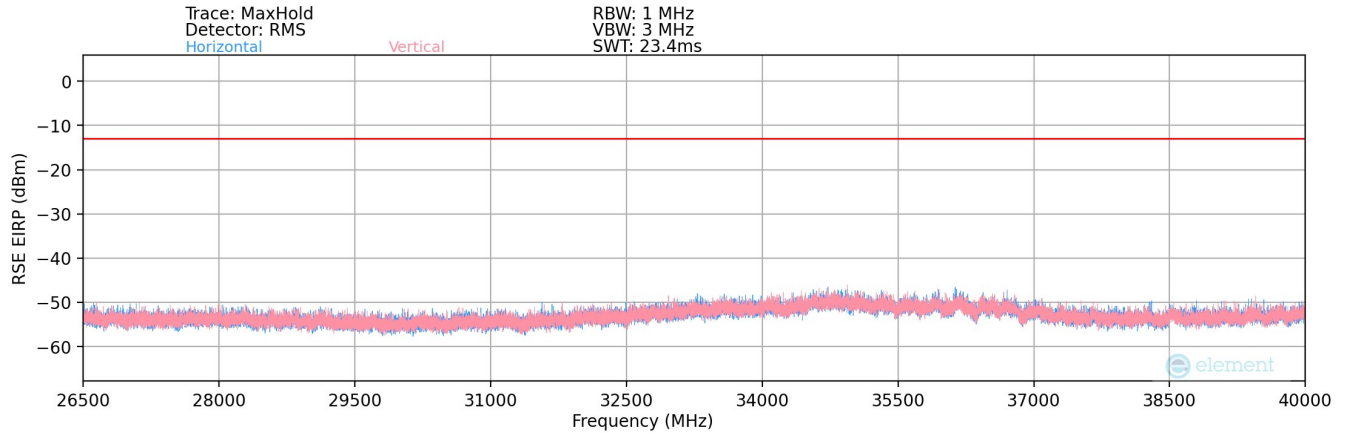


Plot 7-110. Radiated Spurious Plot (NR Band n77) – C-Band



Plot 7-111. Radiated Spurious Plot (NR Band n77) – C-Band

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Plot 7-112. Radiated Spurious Plot (NR Band n77) – C-Band

Bandwidth (MHz):	50
Frequency (MHz):	3840.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
200.00	H	-	-	-85.68	20.10	41.42	-55.98	-13.00	-42.98
260.00	H	-	-	-85.64	19.60	40.96	-56.45	-13.00	-43.45
600.00	H	-	-	-85.47	27.12	48.65	-48.76	-13.00	-35.76

Table 7-22. Radiated Spurious Data (NR Band n77) – C-Band

Bandwidth (MHz):	50
Frequency (MHz):	3725.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7450.00	H	279	203	-79.38	9.84	37.46	-57.80	-13.00	-44.80
11175.00	H	-	-	-80.43	12.56	39.13	-56.13	-13.00	-43.13
14900.00	H	-	-	-80.95	14.31	40.36	-54.90	-13.00	-41.90
18625.00	H	-	-	-56.74	1.14	51.40	-53.40	-13.00	-40.40

Table 7-23. Radiated Spurious Data (NR Band n77 – Low Channel) – C-Band

Bandwidth (MHz):	50
Frequency (MHz):	3840.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.00	H	323	10	-77.95	8.96	38.01	-57.25	-13.00	-44.25
11520.00	H	-	-	-79.79	13.06	40.27	-54.98	-13.00	-41.98
15360.00	H	-	-	-80.86	14.26	40.40	-54.86	-13.00	-41.86
19200.00	H	-	-	-58.27	1.64	50.37	-54.43	-13.00	-41.43

Table 7-24. Radiated Spurious Data (NR Band n77 – Mid Channel) – C-Band

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Bandwidth (MHz):	50
Frequency (MHz):	3955.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7910.00	H	321	260	-79.11	9.53	37.42	-57.84	-13.00	-44.84
11865.00	H	-	-	-80.61	13.28	39.67	-55.59	-13.00	-42.59
15820.00	H	-	-	-80.82	14.94	41.12	-54.14	-13.00	-41.14
19775.00	H	-	-	-59.10	2.03	49.93	-54.87	-13.00	-41.87

Table 7-25. Radiated Spurious Data (NR Band n77 – High Channel) – C-Band

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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

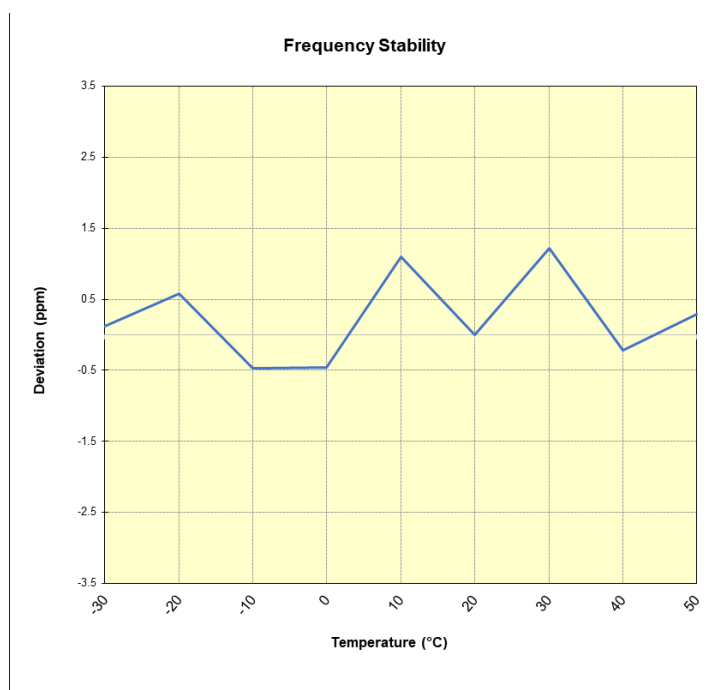
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 (DoD Band)

Operating Frequency (Hz):	3,500,000,000
Ref. Voltage (VDC):	4.435

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.435	- 30	3,500,156,691	445	0.0000127
		- 20	3,500,158,262	2,016	0.0000576
		- 10	3,500,154,601	-1,645	-0.0000470
		0	3,500,154,654	-1,592	-0.0000455
		+ 10	3,500,160,083	3,837	0.0001096
		+ 20 (Ref)	3,500,156,246	0	0.0000000
		+ 30	3,500,160,530	4,284	0.0001224
		+ 40	3,500,155,496	-750	-0.0000214
		+ 50	3,500,157,243	997	0.0000285
Battery Endpoint	3.297	+ 20	3,500,155,381	-865	-0.0000247

Table 7-26. NR Band n77 (C-Band) Frequency Stability Data



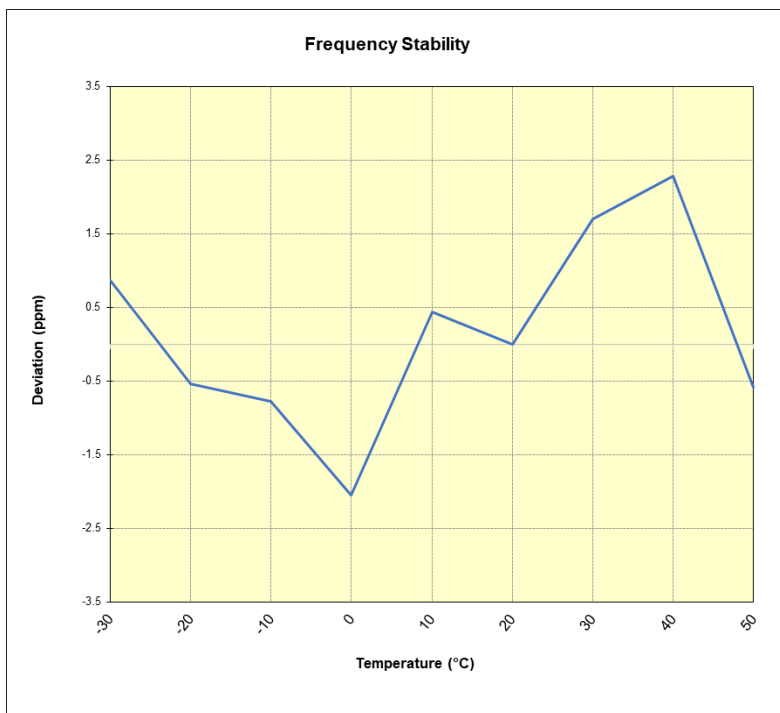
Plot 7-113. NR Band n77 (C-Band) Frequency Stability Chart

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 (C-Band)

<table><tr><td>Operating Frequency (Hz):</td><td colspan="5">3,840,000,000</td></tr><tr><td>Ref. Voltage (VDC):</td><td colspan="5">4.435</td></tr></table>						Operating Frequency (Hz):	3,840,000,000					Ref. Voltage (VDC):	4.435				
Operating Frequency (Hz):	3,840,000,000																
Ref. Voltage (VDC):	4.435																
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)												
100 %	4.435	- 30	3,840,182,487	3,356	0.0000874												
		- 20	3,840,177,090	-2,041	-0.0000531												
		- 10	3,840,176,162	-2,969	-0.0000773												
		0	3,840,171,266	-7,865	-0.0002048												
		+ 10	3,840,180,807	1,676	0.0000436												
		+ 20 (Ref)	3,840,179,131	0	0.0000000												
		+ 30	3,840,185,688	6,557	0.0001707												
		+ 40	3,840,187,930	8,799	0.0002291												
		+ 50	3,840,176,891	-2,240	-0.0000583												
Battery Endpoint	3.297	+ 20	3,840,186,808	7,677	0.0001999												

Table 7-27. NR Band n77 (C-Band) Frequency Stability Data



Plot 7-114. NR Band n77 (C-Band) Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS942B** complies with all the requirements of Part 27 of the FCC rules.

- END OF TEST REPORT -

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